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Starting an Execution File From CD-DVD on the DTL-T10000 (Revised)
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To All Licensees

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Startup procedure

To start an execution file on CD/DVD media from the DTL-T10000, execute the following procedure.

1) Compile a CD/DVD startup program like the following:

```
(Example)
#include <eekernel.h>
#include <sifrpc.h>
#include <libcdvd.h>

main()
{
    sceSifInitRpc(0);
    sceCdInit(SCECdINIT);
    sceCdMmode(SCECdCD);
    sceSifExitCmd();
    LoadExecPS2("cdrom0:\\SLPS_999.99;1",0,0); (*1)
}
```

2) Use dsedb to run the CD/DVD startup program shown above.

```
(Example 1)
$ dsedb -noexit -r run main.elf (*2)

(Example 2)
$ dsedb
:
dsedb S> run main.elf
```

- (\*1) LoadExecPS2() can be used to pass arguments to the main function. This is useful for testing during development.
- (\*2) If the -noexit option is not included when executing dsedb directly from the shell command line, control returns from dsedb when sceSifIopReboot() is executed.

Flash ROM version

When starting an execution file from CD/DVD on the DTL-T10000, the DTL-T10000 flash ROM version must be the same as the version of IOPRP, or earlier.

This can be stated simply as:

- Flash ROM version =< IOPRP version: OK
- Flash ROM version > IOPRP version: Invalid

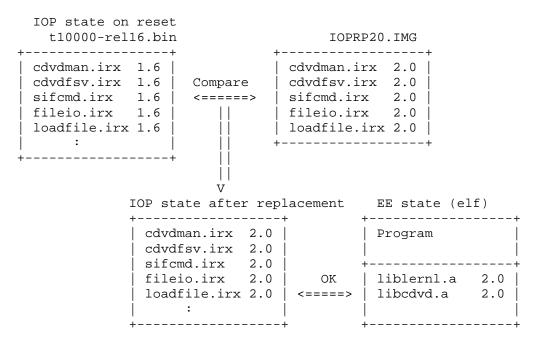
The reason for this is as follows:

When an execution file on a CD/DVD is started up, sceSifIopReboot() is called and the default modules are replaced. The replacement processing flow is as follows. (Same for the DTL-T10000, DTL-H10000, and the actual machine.)

- 1) sceSifIopReboot("IOPRP??.IMG") is executed.
- 2) The kernel resets the IOP.
- 3) After the IOP is reset, IOPRP??.IMG is read and the versions of the irx files within it are checked.
- 4) These are compared with the versions of the irx files originally written to the ROM (flash), and the newer irx files are started up.

The following example shows an image in which a disk that was created using version 2.0 is started up on a DTL-T10000 in which a version 1.6 flash ROM (t10000-rel16.bin) was written.

(t10000-rel16.bin + IOPRP20.IMG image diagram)



The specifications described above provide advantages from both of the following perspectives:

- By writing the latest flash ROM without using IOPRP??.IMG during development on the DTL-T10000, you can use an environment that is stress- free during startup.
- By using IOPRP??.IMG when creating a CD/DVD for the DTL-H10000, the minimum necessary number modules (irx) are replaced quickly.

However, you must be careful in the reverse situation.

For example, if a disk that was created using version 1.6 is started up on a DTL-T10000 on which a version 2.0 flash ROM (t10000-rel20.bin) was written, the EE library and IOP modules will be incompatible, and normal operation cannot be guaranteed.

In this case, use dsflash to write a version 1.6 flash ROM (t10000-rel16.bin), or older, before startup.

(t10000-rel20.bin + IOPRP16.IMG image diagram)

